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TITLE: WHEEL MOTOR AND VEHICLE MOUNTING THE SAME

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INVENTOR-INFORMATION:

NAME

KATSUTA, TAKAYUKI

IGA, KIYOSHI

MIZUTANI, RYOJI

OKUDA, KENZO

ASSIGNEE-INFORMATION:

NAME

TOYOTA MOTOR CORP

COUNTRY

N/A

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ABSTRACT:

PROBLEM TO BE SOLVED: To increase winding density and the magnetic flux density of a rotating magnetic field generated by a stator and obtain a high torque, by mutually connecting, in a desired relation, terminals of a plurality of independent coils which were previously cylindrically wound and are inserted into the respective teeth.

SOLUTION: A wheel motor is an outer rotor type wheel motor having 8 poles and 9 coils constituted of 16 permanent magnets 35 arranged on a rotor and 18 coils 43 arranged on a stator. Coils which are turned into subassembly are used as the coils 43. That is, a plurality of coils 43 which were

previously wound
outside teeth are inserted into the teeth, and connection
between coils 43 is
performed by using a wiring means. By using this
structure, manufacturing is
facilitated, and manufacturing cost can be reduced. Wiring
density and the
magnetic flux density of a rotating magnetic field
generated by the stator are
increased, so that the high torque can be obtained.

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